



NEURO SWING-CLASSIC



NEURO SWING

NEURO SWING 2

NEURO HiSWING

NEURO HiSWING R+

NEURO SWING Carbon

	Dorsiflexion Stop	Plantar Flexion Stop
Main Function	 <p>dynamic</p>	 <p>dynamic (with dorsiflexion assist)</p>
Adjustment Options	<p>adjustable, variable spring force by exchanging the spring unit</p>	<p>adjustable, variable spring force by exchanging the spring unit</p>

The NEURO SWING Carbon is a water-resistant ultralight system ankle joint made of carbon fibre-reinforced plastics.

An orthosis with a NEURO SWING Carbon system ankle joint can be converted into an orthosis with a NEURO CLASSIC Carbon system ankle joint by exchanging the system joint.



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System Ankle Joints NEURO SWING Carbon

NEURO SWING-CLASSIC

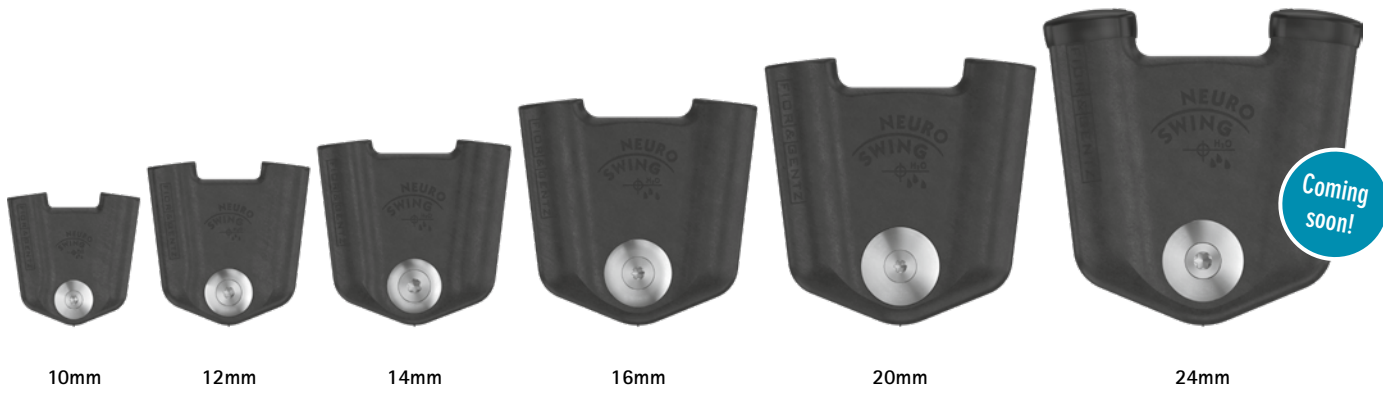
NEURO SWING

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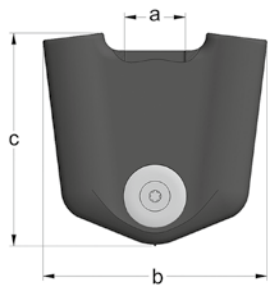
NEURO SWING Carbon



Joint Dimensions [mm]		System Width a					
Dimension	Description	10mm	12mm	14mm	16mm	20mm	24mm
b	joint head width	41	51	60	74	84	99
c	joint height	41	51	58	71	83	97
	joint thickness	12	15	17	20	22	29

Joint Weights* [g]		System Width					
Material	Unit	10mm	12mm	14mm	16mm	20mm	24mm
carbon	piece	14	25	34	70	104	149

* without spring units



- The NEURO SWING Carbon system ankle joint is delivered with the following articles:
- set 2-component adhesive and primer
 - orthosis joint grease, 3g
 - assembly/lamination dummy

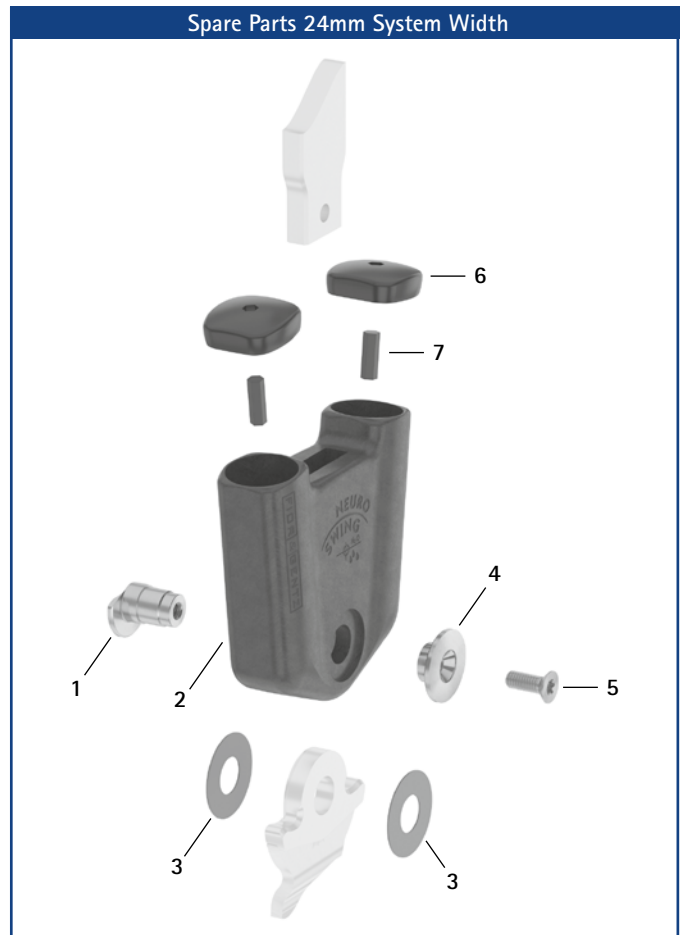
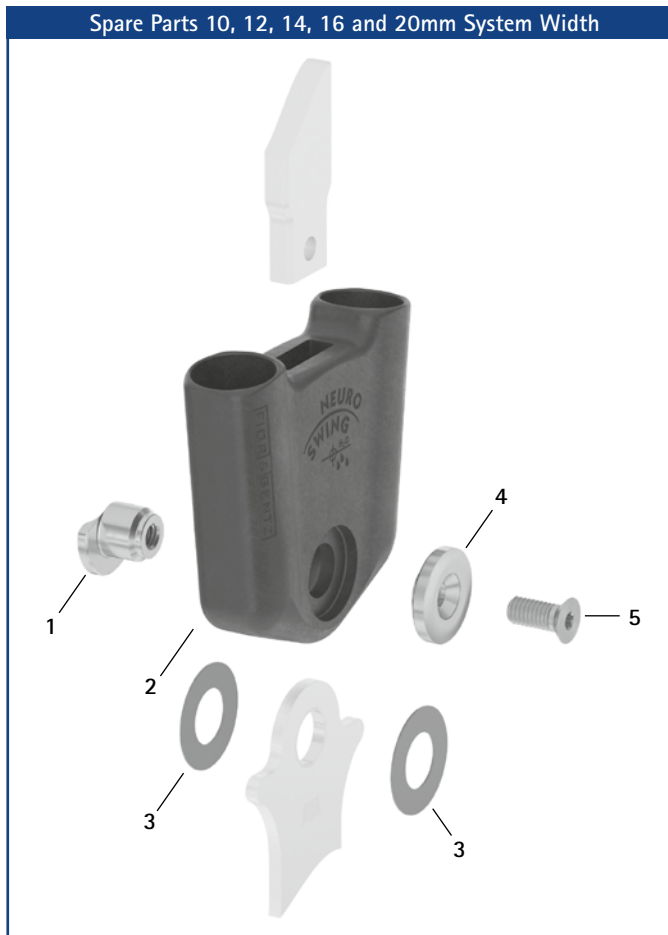
- ➔ Please order spring units, system stirrups and system anchors separately.
- ➔ You will find spring units on catalogue page C60.6.
- ➔ You will find system stirrups on catalogue page C60.9f.
- ➔ You will find special system anchors for the NEURO SWING Carbon on catalogue page I9ff.

C60.3



straight
fig. 1

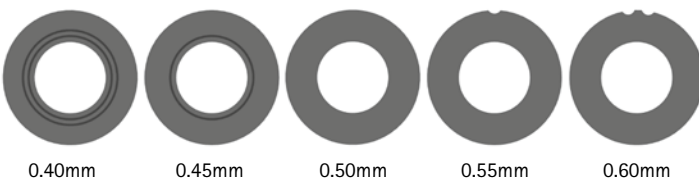
Straight (Fig. 1)								
Material	Leg	Unit	Article Number for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
carbon	left or right	piece	SF5200-C/LR	SF5201-C/LR	SF5202-C/LR	SF5203-C/LR	SF5205-C/LR	SF5207-C/LR



Item	Article Number for System Width						Description
	10mm	12mm	14mm	16mm	20mm	24mm	
1	SF0590-C/1	SF0591-C/1	SF0592-C/1	SF0593-C/1	SF0595-C/1	SF0597-C/1	bearing nut
2	SF0500-C	SF0501-C	SF0502-C	SF0503-C	SF0505-C	SF0507-C	joint case
3	GS1207-*	GS1409-*	GS1911-*	GS2413-*	GS2815-*	GS3013-*	sliding washer*
4	SF0590-C/2	SF0591-C/2	SF0592-C/2	SF0593-C/2	SF0595-C/2	SF0597-C/2	cover disc
5	SC1403-L08	SC1404-L10	SC1405-L11	SC1406-L14	SC1406-L14	SC1416-L16	countersunk flat head screw with hexalobular socket
6	-	-	-	-	-	SF0597-C/4/1	spring unit cover
7	-	-	-	-	-	SF0597-C/4/0	hexagonal pin

* Sliding Washers

Article Number for System Width					
10mm	12mm	14mm	16mm	20mm	24mm
Ø = 12mm	Ø = 14mm	Ø = 19mm	Ø = 24mm	Ø = 28mm	Ø = 30mm
GS1207-040	GS1409-040	GS1911-040	GS2413-040	GS2815-040	GS3013-040
GS1207-045	GS1409-045	GS1911-045	GS2413-045	GS2815-045	GS3013-045
GS1207-050	GS1409-050	GS1911-050	GS2413-050	GS2815-050	GS3013-050
GS1207-055	GS1409-055	GS1911-055	GS2413-055	GS2815-055	GS3013-055
GS1207-060	GS1409-060	GS1911-060	GS2413-060	GS2815-060	GS3013-060



The last three digits of the article number stand for the thickness of the sliding washer, e. g. GS1409-040. The thickness of this sliding washer is 0.40mm. In total, the sliding washers are available in five different thicknesses. The thickness of a sliding washer is indicated by the markings. For example, a sliding washer with two notches is 0.40mm thick, whereas a sliding washer with one notch is 0.55mm thick. Please use the sliding washer centring pin to position the sliding washers.

- ➔ You will find system stirrups on catalogue page C60.9f.
- ➔ You will find system anchors on catalogue page I9ff.
- ➔ You will find the sliding washer centring pin on catalogue page J11.



Spring Unit Case		
Item	Article Number	Description
1	SF5800-C	1 x spring unit set in a case with tools
w/o fig.	SF5800-C/0	1 x spring unit case for filling by yourself, with tools (without spring units)
1a	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 10mm
1b	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 12mm
1c	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 14mm
1d	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 16mm
1e	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 20mm
1f	see table spring units	2 x of each blue, green, white, yellow and red spring unit for NEURO SWING Carbon 24mm
1g	WZ5112-3010	1 x hexagonal screwdriver with spherical head, 3 x 100mm
1h	WZ5112-4010	1 x hexagonal screwdriver with spherical head, 4 x 100mm
1i	WZ5112-5010	1 x hexagonal screwdriver with spherical head, 5 x 100mm

Spring Units (You Need Two of the Following Spring Units for the NEURO SWING Carbon System Ankle Joint):							
Article Number for System Width						Description	Unit
10mm	12mm	14mm	16mm	20mm	24mm		
SF5800-C/15/02	SF5801-C/15/03	SF5802-C/15/05	SF5803-C/15/07	SF5805-C/15/18	SF5807-C/15/12	spring unit, blue, normal, max. 15° range of motion	piece
SF5800-C/15/04	SF5801-C/15/06	SF5802-C/15/11	SF5803-C/15/15	SF5805-C/15/25	SF5807-C/15/25	spring unit, green, medium, max. 15° range of motion	piece
SF5800-C/10/06	SF5801-C/10/12	SF5802-C/09/16	SF5803-C/10/21	SF5805-C/10/40	SF5807-C/10/53	spring unit, white, strong, max. 10° range of motion	piece
SF5800-C/10/09	SF5801-C/10/19	SF5802-C/10/29	SF5803-C/10/31	SF5805-C/10/60	SF5807-C/10/80	spring unit, yellow, very strong, max. 10° range of motion	piece
SF5800-C/05/17	SF5801-C/05/33	SF5802-C/05/53	SF5803-C/05/63	SF5805-C/05/99	SF5807-C/05/99	spring unit, red, extra strong, max. 5° range of motion	piece

Static Dorsiflexion Stop								
Item	Article Number for System Width						Description	Unit
	10mm	12mm	14mm	16mm	20mm	24mm		
w/o fig.	-	-	-	SF5803-C/0	SF5805-C/0	SF5807-C/0	static dorsiflexion stop, black, 0° range of motion	piece

Spare Parts Spring Units and Static Dorsiflexion Stop							
Item	Article Number for System Width						Description
	10mm	12mm	14mm	16mm	20mm	24mm	
2	VE3771-070/12	VE3771-085/13	VE3771-100/12	VE3771-12/12	VE3771-140/15	-	O-ring for securing the spring unit and static dorsiflexion stop*

* An additional O-ring is part of the scope of delivery of the spring units and static dorsiflexion stop.

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Weight Spring Units and Static Dorsiflexion Stop [g]							
Spring Unit	Article Number	System Width					
		10mm	12mm	14mm	16mm	20mm	24mm
spring unit, blue, normal, max. 15° range of motion	see table spring units	6	12	19	33	64	89
spring unit, green, medium, max. 15° range of motion	see table spring units	7	14	25	43	69	95
spring unit, white, strong, max. 10° range of motion	see table spring units	8	17	29	48	78	127
spring unit, yellow, very strong, max. 10° range of motion	see table spring units	8	18	29	47	86	137
spring unit, red, extra strong, max. 5° range of motion	see table spring units	8	18	28	49	86	143
static dorsiflexion stop, black, 0° range of motion	see table static dorsiflexion stop	-	-	-	33	54	75

NEURO SWING

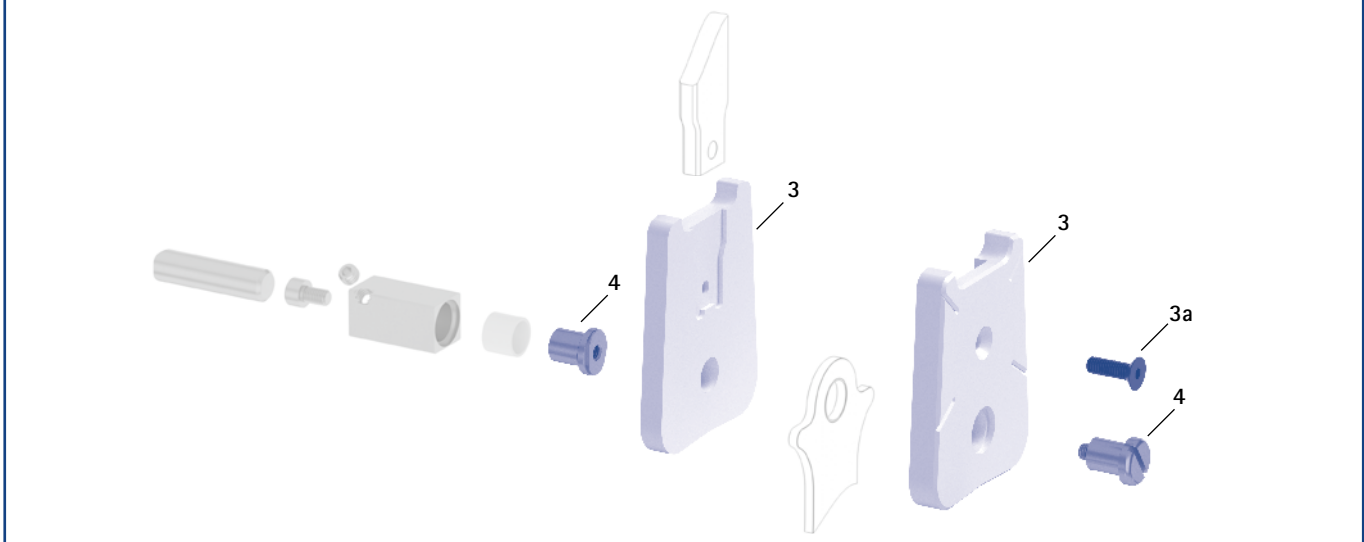
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Assembly/Lamination Dummies and Joint Retainers



Assembly/Lamination Dummies and Joint Retainers								
Item	Article Number for System Width						Description	Unit
	10mm	12mm	14mm	16mm	20mm	24mm		
3	SF0950-C/LR1	SF0951-C/LR1	SF0952-C/LR1	SF0953-C/LR1	SF0955-C/LR1	SF0957-C/LR1	assembly/lamination dummy, two parts (2 dummies with screw)	set
3a	SC1053-L10	SC1054-L12	SC1055-L12	SC1055-L16	SC1055-L16	SC1056-L16	countersunk flat head screw with hexagon socket	piece
4	PE1011-01/LR	PE1011-01/LR	PE1012-LR	PE1025-LR	PE1025-LR	PE1127-LR	joint retainer	piece
	2/Z	2/Z	4/B	7/C	7/C	11/D	laser marking	-

- ➔ Assembly/lamination dummies are included in the scope of delivery of the system joints.
- ➔ You will find an overview of our tools on catalogue page J1ff.
- ➔ You will also find the joint retainers and the corresponding laser markings in the tool case on the catalogue pages J15 and J16.

System Stirrups NEURO SWING Carbon – Bent

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NEURO SWING



rivet stirrup



lamination/prepreg stirrup



thermoformage stirrup



system width 24mm, lamination/prepreg stirrup



system width 24mm, thermoformage stirrup



side view

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General Measures of the System Stirrups

Measure [mm]	System Width					
	10mm	12mm	14mm	16mm	20mm	24mm
thickness	2.0	2.0	2.5	3.0	3.0	4.5
neck width	16	19.3	23.2	26.6	30.8	32.5
bore hole diameter	7	8.5	10.5	12.0	14.0	12.5

Bent

Description	Leg/Leg Side	Unit	Article Number and Measures for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	left or right	piece	-	FC5071-LR/ST3	FC5082-LR/ST4	FC5093-LR/ST4	FC5095-LR/ST5	-
length from the middle of the bore hole [mm]			-	116.3	124	144	164	-
weight [g]			-	41	66	111	139	-
lamination/prepreg stirrup	left lateral or right medial	piece	-	FC5171-L/ST1	FC5182-L/ST1	FC5193-L/ST1	FC5195-L/ST1	FB5137-L/T12
	left medial or right lateral		-	FC5171-R/ST1	FC5182-R/ST1	FC5193-R/ST1	FC5195-R/ST1	FB5137-R/T12
length from the middle of the bore hole [mm]			-	43.3	49.7	57.9	68.3	71
weight [g]			-	15	30	51	68	78
thermoformage stirrup	left or right	piece	-	FC5271-LR/ST2	FC5282-LR/ST2	FC5293-LR/ST2	FC5295-LR/ST3	FB5237-LR/T14
length from the middle of the bore hole [mm]			-	58.2	61	67	73	74
weight [g]			-	19	32	51	64	72



rivet stirrup



lamination/prepreg stirrup

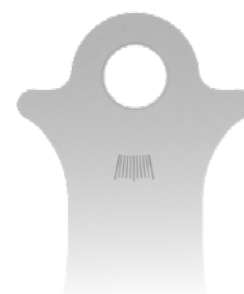
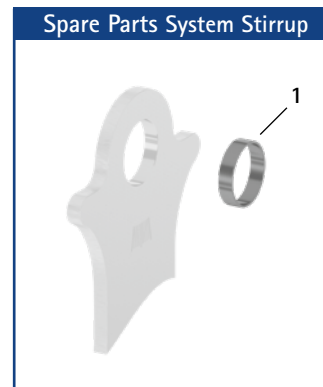


thermoformage stirrup

Straight							
Description	Unit	Article Number and Measures for System Width					
		10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	piece	FB5070-C/ST/3	FB5071-C/ST/3	FB5082-C/ST/4	FB5093-C/ST/4	FB5095-C/ST/5	-
length from the middle of the bore hole [mm]		105	117.3	125	145	165	-
weight [g]		31	41	66	111	139	-
lamination/prepreg stirrup	piece	FB5170-C/ST/1	FB5171-C/ST/1	FB5182-C/ST/1	FB5193-C/ST/1	FB5195-C/ST/1	-
length from the middle of the bore hole [mm]		30.5	44.3	50.7	58.9	69.3	-
weight [g]		9	15	30	51	68	-
thermoformage stirrup	piece	FB5270-C/ST/2	FB5271-C/ST/2	FB5282-C/ST/2	FB5293-C/ST/2	FB5295-C/ST/3	-
length from the middle of the bore hole [mm]		50	59.2	62	68	74	-
weight [g]		13	19	32	51	64	-

Spare Parts System Stirrup							
Item	Article Number for System Width						Description
	10mm	12mm	14mm	16mm	20mm	24mm	
1	BR0807-L020	BR1009-L020	BR1211-L025	BR1312-L030	BR1514-L030	BR1413-L070	sliding bushing

→ All system stirrups of the NEURO SWING Carbon system ankle joint are delivered with an integrated sliding bushing.



→ The system stirrup is marked with lines in the neck area in order to read the joint angle.

Information for Processing

Rivet Stirrup:
 → This system stirrup is riveted to the foot piece.

Lamination/Prepreg Stirrup:
 → This system stirrup is embedded into the laminate of the foot piece.

Thermoformage Stirrup:
 → This system stirrup is embedded into thermoformable plastics, but can be embedded into laminates as well.

Clamping aid for system stirrup for system width 24mm:
 → Due to the clamping aid for system stirrup, the system stirrup is not deformed during bending. The clamping aid for system stirrup is included in the scope of delivery of the system stirrup for system width 24mm. You will find further information on the steps on the FIOR & GENTZ website in the "Online Tutorials" section.